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NOV 16 2000

TECH CENTER 1600/2900

SEQUENCE LISTING

<110> Hubbell, Jeffrey A.  
Elbert, Donald  
Lutolf, Matthias  
Pratt, Alison  
Schoenmakers, Ronald  
Tirelli, Nicola  
Vernon, Brent

<120> BIOMATERIALS FORMED BY NUCLEOPHILIC  
ADDITION REACTION TO CONJUGATED UNSATURATED GROUPS

<130> 50154/002002

<140> 09/496,231

<141> 2000-02-01

<150> 60/118,093

<151> 1999-02-01

<160> 74

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<400> 4  
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<400> 5  
Cys Xaa Xaa Xaa Xaa Xaa Cys  
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<223> Based on Homo sapiens

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<223> Xaa=any amino acid except Cys or Tyr

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<223> Xaa=any amino acid except Cys or Tyr

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Asn Asn Arg Asp Asn Thr  
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<400> 11  
Gln Met Arg Met Glu Leu  
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Gly Phe Arg His Arg His  
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<400> 14  
Tyr Gln Lys Asn Asn Lys  
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<400> 15  
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Glu Trp Lys Ala Leu Thr  
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<210> 19  
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Arg Gln Lys Gln Val Lys  
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Gln Val Lys Asp Asn Glu  
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Leu Ile Lys Ala Ile Gln  
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<223> Based on Homo sapiens

<400> 23  
Thr Leu Lys Ser Arg Lys  
1 5



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<220>  
<223> Based on Homo sapiens

<400> 24  
Ser Arg Lys Met Leu Glu  
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<220>  
<223> Based on Homo sapiens, Bos taurus and Gallus  
gallus

<400> 25  
Pro Gln Gly Ile Ala Gly  
1 5

<210> 26  
<211> 6  
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<213> Bos taurus

<400> 26  
Pro Gln Gly Leu Leu Gly  
1 5

<210> 27  
<211> 6  
<212> PRT  
<213> Gallus gallus

<400> 27  
Pro Gln Gly Ile Leu Gly  
1 5

<210> 28  
<211> 6  
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<220>  
<223> Based on Gallus gallus and Homo sapiens

<400> 28  
Pro Gln Gly Leu Ala Gly  
1 5

<210> 29  
<211> 6  
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<400> 29  
Pro Leu Gly Ile Ala Gly  
1 5

<210> 30  
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<400> 30  
Pro Leu Gly Leu Trp Ala  
1 5

<210> 31  
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<400> 31  
Pro Leu Gly Leu Ala Gly  
1 5

<210> 32  
<211> 8  
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<223> Based on Homo sapiens

<400> 32  
Gly Pro Gln Gly Ile Ala Gly Gln  
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<400> 33  
Gly Pro Val Gly Ile Ala Gly Gln  
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Gly Pro Gln Gly Val Ala Gly Gln  
1 5

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Gly Pro Gln Gly Arg Ala Gly Gln  
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Gly Pro Gln Gly Ile Ala Ser Gln  
1 5

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<223> Based on Homo sapiens

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Gly Pro Gln Gly Ile Phe Gly Gln  
1 5

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<223> Based on Homo sapiens

<400> 38  
Gly Pro Gln Gly Ile Trp Gly Gln  
1 5

<210> 39  
<211> 4  
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Arg Gly Asp Ser  
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<220>  
<223> Based on Homo sapiens

<400> 40  
Arg Glu Asp Val  
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<212> PRT  
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<223> Based on Homo sapiens

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Arg Gly Asp Val  
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<223> Based on Homo sapiens

<400> 42  
Leu Arg Gly Asp Asn  
1 5

<210> 43  
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<400> 43  
Ile Lys Val Ala Val  
1 5

<210> 44  
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Tyr Ile Gly Ser Arg  
1 5

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<400> 45  
Pro Asp Ser Gly Arg  
1 5

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<400> 46  
Arg Asn Ile Ala Glu Ile Ile Lys Asp Ala  
1 5 10

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<223> Based on Homo sapiens

<400> 47  
Arg Gly Asp Thr  
1

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<223> Based on Homo sapiens

<400> 48  
Asp Gly Glu Ala  
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<221> VARIANT  
<222> (1)...(4)  
<223> Xaa=any amino acid

<400> 49  
Val Thr Xaa Gly  
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<223> Based on Homo sapiens

<221> VARIANT  
<222> 1,4,6  
<223> Xaa=Met, Leu, Ala, Ile, Val, Phe, or Pro

<221> VARIANT  
<222> 2,3,5  
<223> Xaa=Arg or Lys

<400> 50  
Xaa Xaa Xaa Xaa Xaa Xaa  
1 5

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<400> 51  
Pro Arg Arg Ala Arg Val  
1 5

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<211> 19  
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<400> 52  
Tyr Glu Lys Pro Gly Ser Pro Pro Arg Glu Val Val Pro Arg Pro Arg  
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Pro Gly Val

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<223> Based on Homo sapiens

<400> 53  
Arg Pro Ser Leu Ala Lys Lys Gln Arg Phe Arg His Arg Asn Arg Lys  
1 5 10 15  
Gly Tyr Arg Ser Gln Arg Gly His Ser Arg Gly Arg  
20 25

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<223> Based on Homo sapiens

<400> 54  
Arg Ile Gln Asn Leu Leu Lys Ile Thr Asn Leu Arg Ile Lys Phe Val  
1 5 10 15  
Lys

<210> 55  
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<223> Based on Homo sapiens

<221> MOD\_RES

<222> 2

<223> Xaa=bAla

<400> 55

Lys Xaa Phe Ala Lys Leu Ala Ala Arg Leu Tyr Arg Lys Ala  
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<210> 56

<211> 14

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<223> Based on Homo sapiens

<400> 56

Lys His Lys Gly Arg Asp Val Ile Leu Lys Lys Asp Val Arg  
1 5 10

<210> 57

<211> 8

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<223> Based on Homo sapiens

<400> 57

Tyr Lys Lys Ile Ile Lys Lys Leu  
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<210> 58

<211> 9

<212> PRT

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<223> Based on Homo sapiens

<400> 58

Gly Cys Tyr Lys Asn Arg Asp Cys Gly  
1 5

<210> 59

<211> 16  
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<210> 60  
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 1 5 10

<210> 62  
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Xaa Cys Gly Tyr Gly Arg Gly Asp Ser Pro  
1 5 10

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Gly Asp Gly Ser Gly Tyr Gly Arg Gly Asp Ser Pro Gly  
1 5 10

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Gly Cys Gly Tyr Gly Arg Gly Asp Ser  
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Gly Lys Lys Lys Lys Gly Cys Tyr Lys Asn Arg Asp Cys Gly  
1 5 10

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<400> 66  
Gly Cys Tyr Lys Asn Arg Asp Cys Gly  
1 5

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<211> 13  
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<400> 67  
Gly Cys Cys Gly His His His His His Gly Cys Cys Gly  
1 5 10

<210> 68  
<211> 9  
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<400> 68  
Gly Cys Tyr Lys Asn Arg Asp Cys Gly  
1 5

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<400> 69  
Met Gly Ser Ser His His His His His His Ser Ser Gly Leu Val Pro  
1 5 10 15  
Arg Gly Ser His Met Lys Asp Pro Lys Arg Leu Tyr Arg Ser Arg Lys  
20 25 30  
Leu Pro Val Glu Leu Glu Ser Ser Ser His Pro Ile Phe His Arg Gly  
35 40 45  
Glu Phe Ser Val Cys Asp Ser Val Ser Val Trp Val Gly Asp Lys Thr  
50 55 60  
Thr Ala Thr Asp Ile Lys Gly Lys Glu Val Met Val Leu Gly Glu Val  
65 70 75 80  
Asn Ile Asn Asn Ser Val Phe Lys Gln Tyr Phe Phe Glu Thr Lys Cys

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His	Trp	Asn	Ser	Tyr	Cys	Thr	Thr	Thr	His	Thr	Phe	Val	Lys	Ala	Leu			
		115					120					125						
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tctgtatggg taggcgataa aaccactgcc actgatatca aaggcaaaga ggtgatggg	180
ctgggagaag taaacattaa caactctgta ttcaaacagt acttcttcga aactaagtgc	240
cgtgaccga acccggtaga ctctgggtgt cgcggcatcg attctaaaca ctggaactct	300
tactgcacca ctactcacac ttctggttaa gcgttgacta tggatggtaa acaggctgcc	360
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Gly Cys Gly Lys Xaa Phe Ala Lys Leu Ala Ala Arg Leu Tyr Arg Lys	
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<223> Based on Homo sapiens

<221> VARIANT

<222> (1)...(5)

<223> Xaa is any amino acid

<400> 72

Xaa Xaa Xaa Xaa Tyr

1

5

<210> 73

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> based on Homo sapiens

<400> 73

Gly Lys Lys Lys Lys

1

5

<210> 74

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> based on Homo sapiens

<400> 74

Gly Arg Gly Asp Ser Pro Gly

1

5